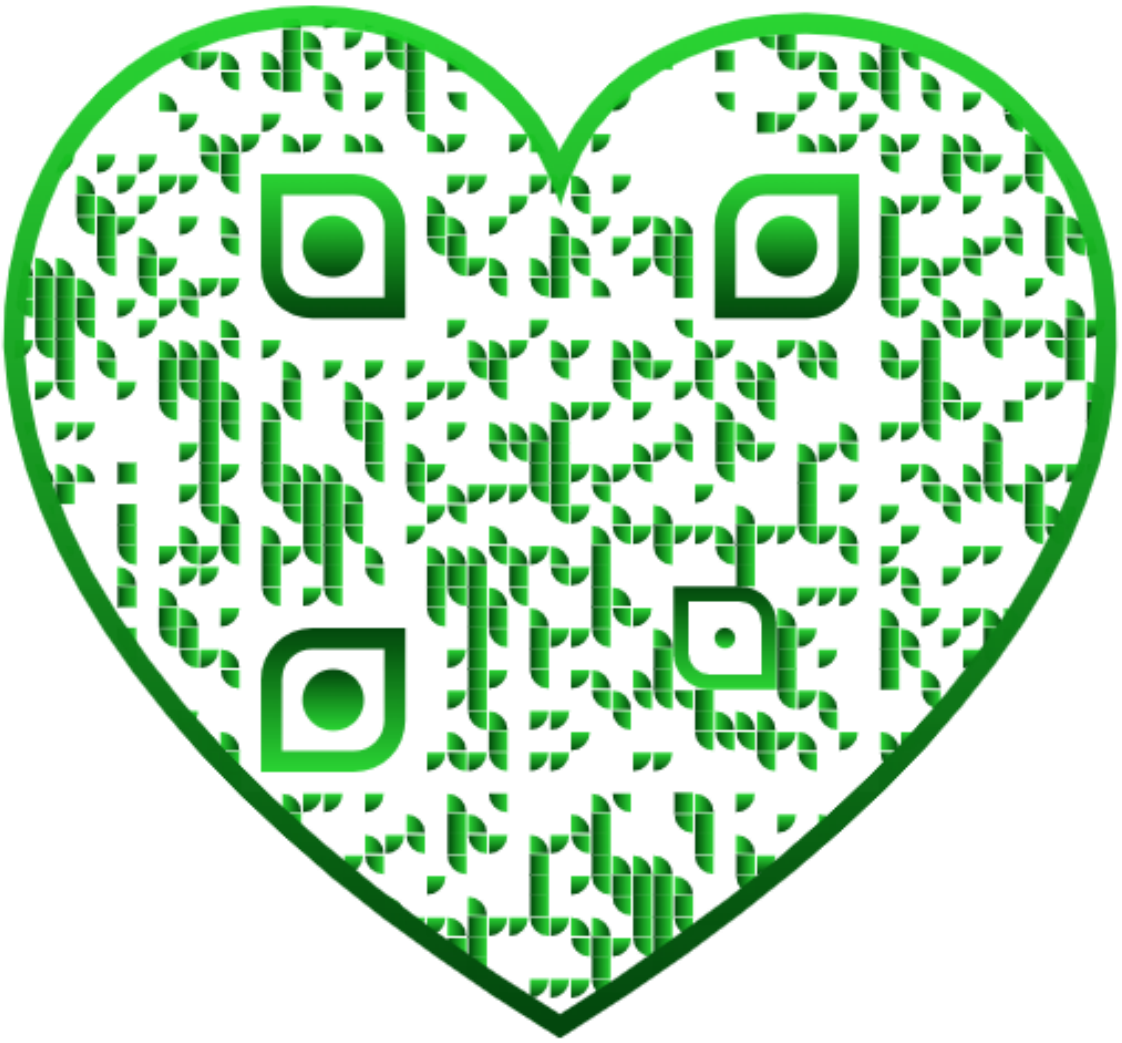
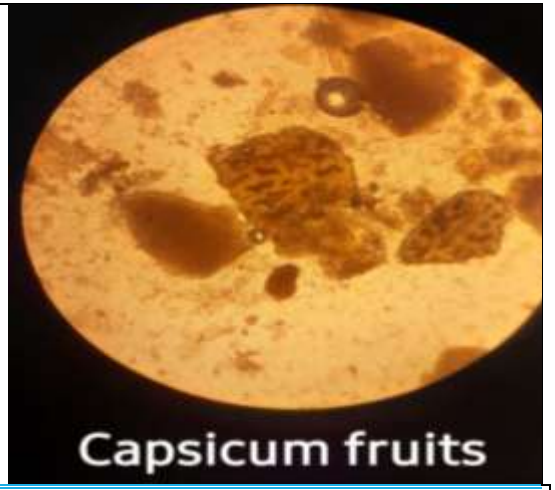
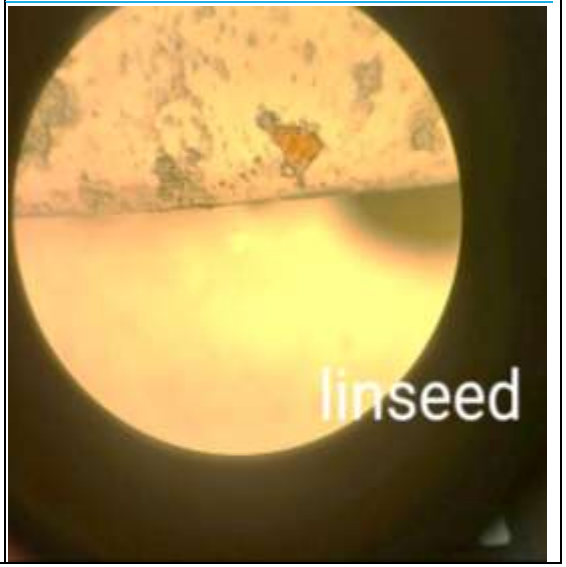
Name of plant	B.O	CHEMICAL CONSTIUENTS	KEY ELEMETS	USES	UNDER MICROSCOP
SENNA LEAVES	Dried leave of acacia acutifolia.	1.Glycosides: anthraquinone group sennoside **A** and **B** trace **C** and **D**. 2.Resins	Both surface bear scattered	1.Treatment of constipation 2. in small dose laxative but large dose purgative.	
chamomile	It is the dried flower head of Anthemis nobilis.	Volatile oil (1%)chamomile oil.	Pollen grain key element, which are spherical with three pores and spiny and warty exine.	1.anti-infalmantory 2.carminative 3.cosmetic	



Clove flower buds	It is the dried flowering buds of Eugenia caryophyllus.	Volatile oil (14-15%) Eugenol 70-90 %	Pollen grain (rounded and triangular)smooth exine	1.Condiment 2.Carminative 3.Anti-septic 4.Flavoring agent 5.Local anesthetics	
Fennel fruit	It is the dried ripe of Feoniculum.	Volatile oil Fenchone Anenthole and limonene	The numerus brown fragments of vittae.	1.Carminative 2.Anti-septic 3.Flavoring agent	
Coriander fruit	It is the dried ripe of <u>Coriandrum *sativum*</u>.	1.Volatile oil 2% 2.Coriandrol 65-70 % 3.Pinene and trace V.O.	----	1.Condiment 2.Carminative 3.Flavoring agent	----------

Capsicum fruit	It is the dried ripe of <u>Capsicum *minimum*</u>	1.Phenolic sub.: capsaicin 0.2% 2.Alpha & beta carotene. 3.Vit. c fixed oil	Islet of sclereids	1.Internally: stomachic, condiment carminative Externally: counter irritant, rubificient.	
Linseed flaxseed	Dried seed of <u>Linum *unsitatissimum*</u>.	1.fixed oil 30-40 %. 2.cyangenic glycoside.	Fragment of the pigment layer of the testa.	1.demulecent 2.mild laxative 3.Emollient 4.industrial use (paint, varnish ink& soap)	

Black mustard	Dried ripe seed of **Brassica *nigra***.	1.A thio-glycosides 2.Fixed oil, protein & mucilage.	Dark brown fragments of the palisade of the testa.	1.condiment. 2.externally as a counter irritant. 3.emetic in large dose.	
Cinnamon bark	Dried bark of **Cinnamon *zeylanicum***.	1.cinamon oil 2. mucilage (mannitol) 3. tannins	Sclerieds, which occur singly or in small group. Abundant fibers, which occur singly thick walled &lignified.	1.carminative 2.flavor 3.anti-septic 4.anti-diarrhae 5.	
Pomegranate root bark	Dried root bark of **Punica *granatum***.	1.vitamin C & vit. B_5. 2.Tanins such as ellagitannins & flavonoids.	Fragments of cork more numerous are composed of lignified cells.	1.cancer prevention 2.cardiovascular disease 3. diarrhea 4.parasite 5.diabetes	

Liquorice (sweet root)	Dried root of Glycyrrhizin *glabra*	1.glycoside-saponin group glycyrrhizin 50 times sweeter than sucrose. 2.flavonoids	Crystal sheath surrounding the fiber.	1.expectorant 2.anti-histamin 3.demulecent 4.anti-infalamatory activity used in treatment of peptic ulcer.	
Ginger rhizome	Dried rhizomes of Zingiber *officinalis*	1.volatile oil 2.starch 50% 3.proteins	----------	1.carminative 2.condiment 3.flavoring agent 4.voice loss	----------
Arabic gum	It is the dried gummy exudation from stem or branch of Acacia *sensegal*	Mixed of glycoprotein &polysaccharides	----------	1.suspending agent 2.viscosity increasing agent.	----------
Olibanum	It is the oleogumresin obtained from Bosiwella *carterii.*	1.oil terpenoids, Boswellic acid & volatile oil.	----------	1.anti-lipoid activity 3.Anti-inflammatory 4.skin disease 4. part of process mummification	----------